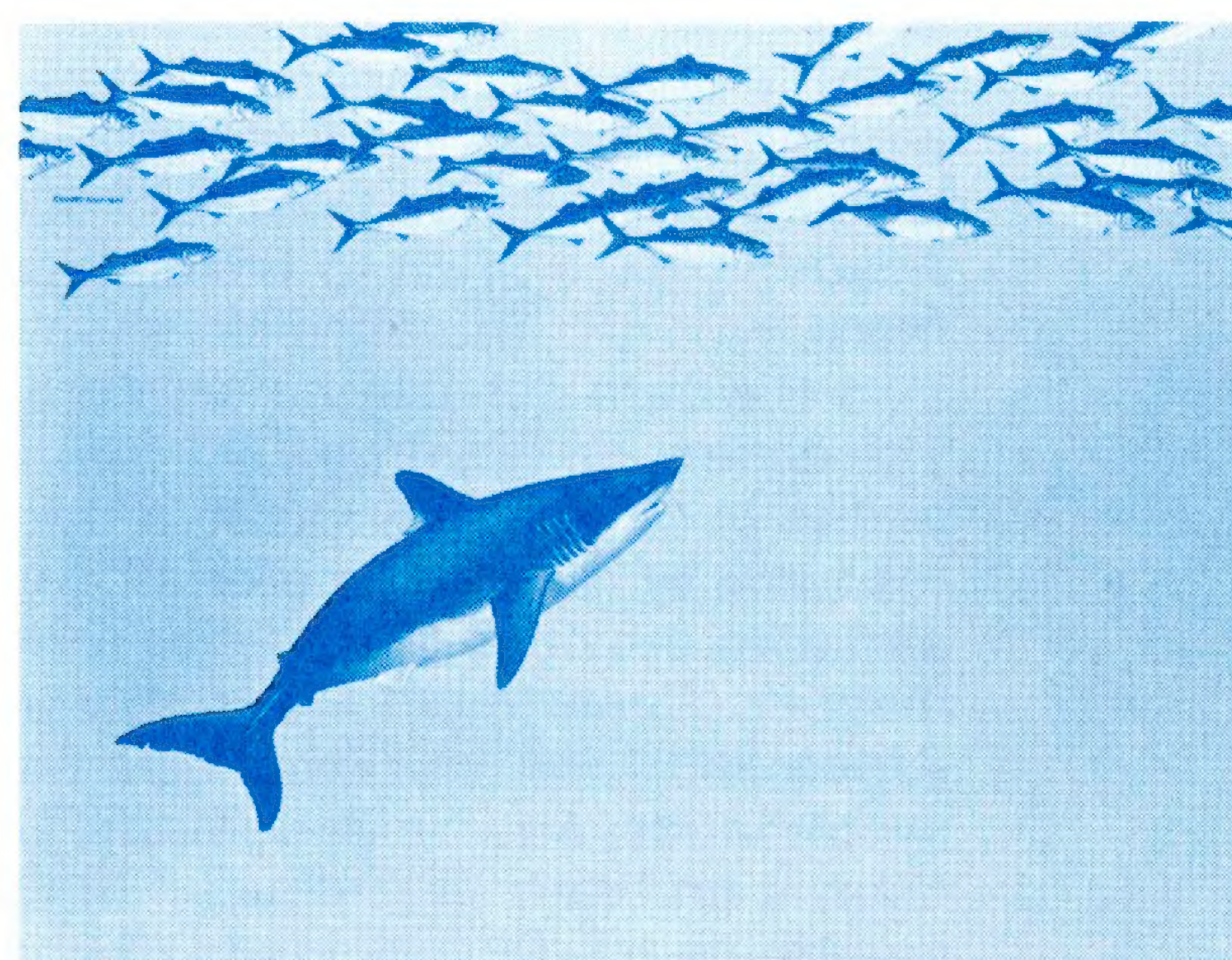


IT'S FANTASTIC . . .
IT'S FIN-SATIONAL . . .
It's the one and only



May 14, 1980 • 6 to 10 p.m.
at the California Academy of Sciences

By now members of the Academy should have received their invitations to the Fish Fair, a benefit evening for the California Academy of Sciences, featuring dining, dancing, special "how-to" table on all facets of fish-ology, plus a lively auction with glamorous, useful and fanciful items like trips to Hawaii and Grand Cayman Island; or diving with Sylvia Earle and shark collecting with Carter B. Smith of KNBR Radio; and works of art such as paintings and sculpture and carpets and books and dinners at restaurants and dinner in the Fish Roundabout and . . .whew!



Original oil by Richard Ellis, author of "The Book of Sharks" . . . one of the many items on the Academy's auction block at the Fish Fair!

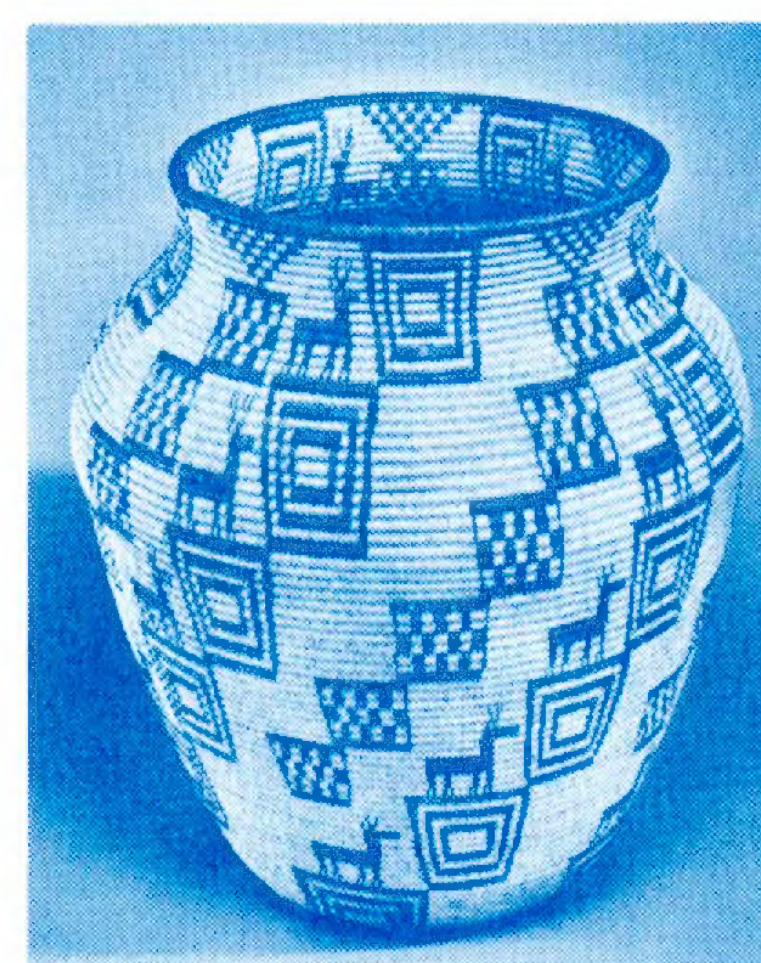
You have got to see it to believe it all! Make your reservations today for the one and only Fish Fair. Tickets are available

Special Exhibits

only through the California Academy of Sciences and are \$20 each for adult members; \$25 each for non-members and \$12 each for small fry (12 and under). Send checks to California Academy of Sciences, Golden Gate Park, San Francisco 94118, ATTN: Fish Fair. Call 221-5100 for more information.

In February the Academy opened **The Ancestors: Native Artisans of the Americas** with its beautiful examples of works of art from six native American cultures including:

Sioux painter of the Great Plains
 Karaja featherworker of Brazil
 Haida carver of the Northwest Coast
 Pomo basketmaker of Northern California
 Pre-Columbian potter of the American Southeast
 Araucanian weaver of Chile



finest basketry made by the Indian peoples of western North America.

And now . . . **HOPI KACHINA: Spirit of Life**, the new nationally touring show opening May 22 which has been organized to travel over the next two years by the California Academy of Sciences. This exhibit will let you wander through the mesas of northeastern Arizona to the land of the Hopi, America's oldest continuously surviving culture. Your guides, the kachinas, are the friendly spirit messengers of the Hopi and their presence is all around you in this museum exhibit that you feel without touching.



Last month in the newly renovated Wattis Gallery the doors opened on the rich and intricately textured collection of **Woven Treasures: The Clay P. Bedford Indian Basket Collection** featuring 130 examples of some of the

150 kachina dolls, or **tihus**, are on display, as well as audio-visual programs, a full-scale kiva entryway, model villages complete with kachina dancers, Hopi music and special lighting effects to simulate the drama of a Hopi sky. You will meet the kachinas who aid the Hopi in bringing rain, good weather and bountiful harvests, as well as the kachina clowns who bring laughter and the kachina ogres who teach youngsters responsibility and respect for the Hopi way of life.

HOPI KACHINA: Spirit of Life is made possible by a grant from the National Endowment for the Humanities and is presented in conjunction with the Hopi Tricentennial celebration. A beautifully illustrated color and black and white catalog will be on sale for approximately \$10.00. HOPI KACHINA will continue in Lovell White Hall through September 1.

On Thursday, May 22, from 6 to 9 p.m. members of the California Academy of Sciences are invited to a private evening in Hopi Kachina: Spirit of Life. Please enter the Academy through the main entrance at Cowell Hall. Your guests are very welcome!

Morrison Planetarium

Star Death — The Birth of Black Holes has been held over by popular demand and will continue in the Morrison Planetarium through June 1. Showtimes will be at 2:00 p.m. each weekday and at 12:30, 2:00 and 3:30 p.m. on weekends. Evening shows will be on Wednesdays and Thursdays at 7:30 p.m.

The Planetarium will be closed on June 2, 3, 4 and 5 and will re-open June 6 with a new show, **The Universe Unveiled**, which will run through Labor Day. Be sure to check your **June Newsletter** for details on this spectacular new show.

Exploring the Skies of the Season, a look at the current night sky over San Francisco will continue to be shown on weekends at 11:00 a.m.

Please Note: The Planetarium shows are free to members when they use their complimentary pass as a ticket.

Inside the Academy

Mysteries of the Sea . . . something to watch for this May! For the past 14 months, Al Giddings, underwater photographer and research associate of the California Academy of Sciences has directed the most skilled international camera crews throughout the world to document the definitive story of man's history underwater. Cameramen have filmed from outrigger canoes, research vessels, miniature submarines, airplanes, helicopters, and underwater to depths exceeding 1000 feet, using state-of-the-art techniques to expose 47 miles of color film. The result is "Mysteries of the Sea", a two-hour primetime ABC television special starring two Academy marine scientists, John McCosker and Sylvia Earle.

You will see Dr. Earle make a record dive to 1,250 feet on the floor of the Molokai Channel, Hawaii, in JIM, an armored, titanium, one-atmosphere diving suit, a feat which echoes man's first footsteps on the moon.

In southern Australia, Dr. John McCosker and a marine scientist from the University of Hawaii, join shark attack survivor Rodney Fox at Dangerous Reef for some close-up encounters with great white sharks. You will see them implant sonic

Living Arts

To highlight both the travelling exhibit, **The Ancestors: Native Artisans of the Americas**, and **HOPI KACHINA: Spirit of Life**, the Academy's own exhibit, two demonstrations and a slide/lecture presentation have been planned for the Wattis Hall of Man.

May 3 and 4
11:00-12:30
and 1:30-3:30

"The Weavers Art". Mayan Indians from Guatemala will demonstrate the ancient textile art of backstrap weaving. Slides of Mayan people, their life, customs, and dress will be presented with accompanying dialogue.



Laserium

Laserium San Francisco, the latest cosmic laser light concert, featuring rock music by local Bay Area artists, has joined **Laserium Starship** and **Light Years** at Morrison Planetarium. See these three shows through Sunday, June 1 at the following times: **San Francisco** on Friday evenings at 7:30, 9:00 and 10:30; **Light Years** on Saturdays at 5:00, 7:30, 9:00 and 10:30; and **Starship** on Sunday nights at 5:00, 7:30 and 9:00. A new and different light show will open on Friday, June 27. (Please check your **June Newsletter** for details).

Advance tickets are available through all Bay Area Seating Service outlets (BASS) and remaining tickets go on sale at the Planetarium box-office one half hour before showtime. Tickets are \$3.25 each. For more information please call 752-4264.

telemetry devices on selected animals to learn new facts that will contribute to a better understanding of how this ton-and-a-half super-predator has survived these millions of years. Stunning slow-motion underwater photography of these creatures reveals a unique look at eye and jaw action during the high-voltage moment of strike.

Other segments of the program explore the lure of sunken treasure, friendly, (and not-so-friendly) creatures of the sea, man's deepest free dive to a body-squeezing 328 feet on a single breath, and a look at undersea life at the top of the world — a dangerous dive under the North Pole.

Check local papers for exact date and time for "Mysteries of the Sea" on your local ABC station.

Another television special, "The Secret Life of Sharks" featuring aquarium staff and Steinhart sharks, will be seen on KPIX-TV's "Evening Magazine" in May! Watch for it.

Meet the Departments

May 25 and 26

11:00-12:30 and 1:30-3:30

"Hopi Silver Overlay Jewelry".

A demonstration by Hopi Silversmith Michael Kabotie.

June 7

11:00 and 1:00

Robert Black, anthropologist and expert in the music of the Hopi will present "Music in Hopi Life", a lecture/slide presentation supplemented with demonstrations of Hopi musical instruments and field recordings.



This month we would like you to meet Dr. Alan Leviton (right), Robert Drewes (left), John Simmons and Margaret Berson of the Herpetology Department.

The Academy herpetology collection, which is worldwide in scope, is one of the largest of its kind. The dual purpose of the department is on-going research and care of the permanent collection. The value of this collection, which dates from the 1906

Academy expedition to the Galapagos, is more than just the physical specimens but also the data associated with the animals. The collection must be kept both up-to-date and in good condition as it is the principal resource of research materials in the U.S. and also provides material to foreign colleagues. Department research centers on Africa and Asia with emphasis on systematics, and biogeography. Both classic and new techniques are used to determine the relationships of species.

Dr. Leviton (Chairman and Curator) specializes in Asia and his particular interest is in the history of science as it pertains to biogeography, herpetology and the Academy. He is currently doing active research in these areas in collaboration

with a historian of science, Dr. Michele Aldrich. Dr. Leviton is also Executive Director of the Pacific division, American Association for the Advancement of Science (AAAS), and editor of their scientific publications.

Both Bob (Assistant Curator), who specializes in Africa, and John (Collections Manager), whose interest lies in South America, have continuing programs of field research. Bob is co-chairing a symposium of Amphibian Physiology this June, and his doctoral dissertation is on the evolutionary relationships of a family of African tree frogs. His major interest is the reptiles and amphibians of the Somali arid zone of Africa.

Margaret is the secretary for the department. She has been with the Academy for 5 years and is also the assistant editor of a series of symposium volumes for the AAAS.

They have been in their new Academy quarters for 1½ years, which they happily share with a collection of live animals used for research.

Five fascinating Academy courses begin in May. Registration is by mail and details are in the Activities Calendar available through the Education/Travel Office at 221-5100, ext. 211.

Stargazing for Backpackers

May 5-June 9 (Mondays, except May 26)
7-9 p.m.
\$20 members, \$25 families

Indians of California

May 7-28 (Wednesdays and one field trip)
7-9 p.m.
\$30 members

A Minus-Tide Adventure

May 16 (Friday)
7-9 p.m. lecture
May 17 (Saturday)
Field trip!
\$8 member, \$15 family

Darwin's Galapagos: The Enchanted Isles

May 17 (Saturday)
9-Noon
\$5 members

The World of Hopi: A Symposium

May 24 (Saturday)
9-4 p.m.
\$5 members

Pueblo Country II, Northeast Arizona

June 6-15

Once again members will have an opportunity to study in depth the ancient culture of the native Americans of Northeastern Arizona and to visit areas of spectacular scenic beauty. Highlights of this 10-day tour include the Hopi Mesas, the Hopi Cultural Center, Canyon de Chelly, Monument Valley, the Grand Canyon and the Museum of Northern Arizona. Dr. Dorothy Washburn, Chairman of the Academy's Anthropology Department and expert in the archaeology of this region leads our tour. For information, please call Gulliver's Travels at (415) 346-4400.

Alaska

July 11-26

Alaska, land of abundant wildlife and magnificent scenery is the focus of this 16-day expedition. Join Dr. and Mrs. Robert T. Orr for a cruise to the Columbia Glacier, several days visit in Mt. McKinley National Park, an exploration of Katmai National Monument with its "Valley of Ten Thousand Smokes", and finally a three-day visit to an area of incomparable beauty, Glacier Bay National Monument. For information, please call Siemer & Hand, Ltd. at (415) 788-7186.

National Parks and Monuments of the Western United States

July 26-August 3

A geological exploration of the national parks and monuments of the Western United States will be the focus of this 7-day tour led by Mr. Charles Chesterman, Curator of Mineralogy. Members will fly to Boise to begin their motorcoach tour of the Craters of the Moon National Monument, The Teton Range, the wonders of Yellowstone National Park and the rugged beauty of Glacier National Park. Cost is \$998 including airfare. For information, please call Gulliver's Travels at (415) 346-4400.

Zambia and the Seychelles

July 31-August 24

Zambia, Livingstone's Africa and site of Victoria Falls, is the focus of this 24-day expedition. Highlights include game drives in open land rovers in Kafue National Park, a visit to Victoria Falls, a "Sundowner Cruise" on the Zambezi, and a stay in Chibembe Camp in the Luangwa Valley where participants will enjoy a 4-day walking safari and night drives guided by experienced leaders. Five days in the exotic Seychelles complete this African adventure. Led by Academy naturalist Bob Drewes. Cost is approximately \$4200 per person including air fare. For information call Bryan International Travel at (415) 986-0967.

The National Treasures of Japan

September 21-October 7

With the leadership of botanist Gladys Smith, members will visit several of the natural and cultural treasures of Japan. On the island of Honshu, points of interest will include Tokyo, Nikko with its spectacular mountain scenery, Ago Bay's famous pearl divers and the classical Buddhist and Shinto shrines of Nara and Kyoto. On the northern island of Hokkaido, highlights will include several national parks, hot springs and fabulous botanical gardens. Cost of land arrangements is \$1840, air is \$1009 at current G.I.T. rates. For information, call Bryan International Travel at (415) 986-0967.

Sea of Cortez

October 25-November 1

This cruise on the **Baja Explorador** is bound to be a memorable trip for those who enjoy the variety of wildlife and natural beauties of the desert environment. Cost is \$700, including air fare from Los Angeles. For information, please call the Academy Travel Office at (415) 221-5100, ext. 211.

New Members of the Academy

Continued from last month

Mr. Pedro J. Gonzalez
Mr. & Mrs. Gordon
Dr. Florence H. Gottdiener
Mr. Jean Goyhenetche
Mr. Michael S. Green
Mrs. Donna Lee Grossman
Mr. & Mrs. Charles Hall
Miss Margaret Hamlin
Miss M. Marianne Hansen
Mrs. Marye M. Harding
Joseph Haynes Family
Mr. Henry R. Hecht
Greg & Stephanie Henry
Mr. Jason Hilton
Mr. & Mrs. Carlton Honebein
Mr. Alan Hopkins
Mrs. Thayer Hopkins
Miss Muriel Hornstein
Mr. & Mrs. Danilo Ibanez
Mrs. J. M. Incerti
Ms. Lillian Johnson
Mr. & Mrs. O. R. Johnson
Mr. & Mrs. William Joyce
Ms. Myrna Kaplan
Miss Janice C. Kane
Mr. & Mrs. E. David Keller
Robin L. Kelley
Miss C. H. Kent
Miss Anne Kernan
Dr. Thomas M. Kilbridge
Mr. Steven Kirk
Mrs. Esther Klippel
Mr. James Knotek
Mrs. Anne M. Kroll
Dr. & Mrs. W. B. Lanier
Mr. & Mrs. Vincent Lau
The Jim Lesiak Family
Mr. & Mrs. Fred Lezak
Mr. Jerry Lingle
Mr. Carl Livingston
Miss Carol MacHamer
Ms. Chris MacIntosh
Dr. David Mack
Ms. Marie Malveaux
Mrs. Irene Mayhill
Mrs. Anne Marselis
Mrs. Marjorie D. Martin
Mr. Greg Meginness
Miss Jean Mehren
Mr. Paul C. Meidus
John R. Minton Family
Mr. Thomas A. Mogck
Mr. & Mrs. John M. Moore
Mr. Phillip A. McLean
Mr. Robert B. McNeil
Miss Marie E. Musante
Mr. Frederick M. Nelligan
Miss Margot Nevian
Mrs. Clifford Nilan

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Kristina Adams
Mr. & Mrs. Chris Ammen
Mr. J. L. Appleton
Miss Patricia G. Arca
Mr. & Mrs. Frank Awamura
Leonora F. Bailey
Mrs. M. R. Baker
Mr. Robert Bakewell
Edward & Elsie Baron
Mr. & Mrs. Steve Baron
Mr. Frank A. Barone
Mr. Dennis Barr
Mr. Donald M. Beach
Mr. William Beahrs
Mr. & Mrs. K. H. Benford
Mr. & Mrs. O. Berkeley
Mr. & Mrs. Richard Blaisdell
Miss Mitzi Block
Mr. Malcolm Bond
Mr. & Mrs. Robert Buickerood
Miss Janet Burlingham
Mr. & Mrs. John Burris
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Judith Cantrell
Miss Patricia Caplan
Mrs. Eugene Ciranni
Charlotte Wesley Clark
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Mr. Tom Coe
Pat Colonnese
Ms. Sandra Coopersmith-Beezy
Ms. Natalie Cremer
Mr. Richard L. Critchfield Sr.

Naphtali Offen
Mr. & Mrs. Andrew Ogiilvie
Mr. David Parkinson
Mr. & Mrs. William A. Patton
Mr. & Mrs. Fred L. Payne
Mrs. Miriam Drew Phillips
Aileen Pierson
Mr. & Mrs. Melvin Pincus
Miss Elaine Plaisance
Mrs. Marie C. Pratt
Miss Heidi Rahlmann
Mr. Reed Rahlmann
Dr. J. Ramachandran
Mrs. Rose I. Rhine
Mrs. Murray Richards
Mr. Sam Rigling
Miss Donna Robson
I. H. Rosenberg
Mrs. Ludwig Rosenstein
Mr. David Ruddy
Anna Marie Rudi & Chinte Ocon
Mr. Mark W. Russo
Mr. Walter J. Sak
Mr. Robert Sayre
Miss Sandra Schickele
Dr. David W. Schieser
Miss Marlies H. Schneider
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Ms. Michelle Weinmen
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Mr. Patrick R. Whitefield
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Mr. Louis G. Yichoy
Mus. Saki Yoshida
Dr. William A. Zavanelli
Ms. Jeri B. Zemon

Mr. & Mrs. Arthur P. Daniels
Dr. Peter Dau
Mr. Wayne Daubs
Pat Davie
Mr. Alan Davis

Contributing Members

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Roxy A. Barnett
Mr. Russell Carpenter
Mr. E. B. Cochran
Sally D. Culley
L. M. & J. M. Dowling
Paula M. Feingold
Catherine A. Fleek
Mrs. Richard F. Kemp
Mr. John W. Larson
Mr. Randy Livingston
Barbara & Charles Pattie
Mr. Robert C. Schenk
Mr. & Mrs. Mahendra A. Shah
Mr. Charles M. Wertheimer

Sustaining Members

Mr. D. L. Eichler
Mr. & Mrs. Richard Griffith

Life Members

Mrs. Linda Chew
Christine Schonewald Cox &
Robert G. Cox

Continued next month

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